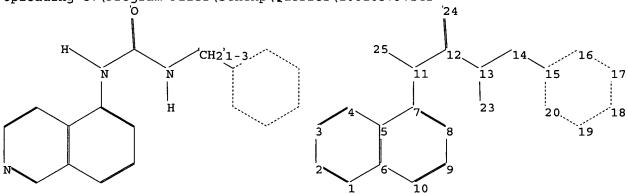
FILE 'HOME' ENTERED AT 10:49:28 ON 27 OCT 2005

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Uploading C:\Program Files\Stnexp\Queries\10616579.str



chain nodes :

11 12 13 14 23 24 25

ring nodes :

1 2 3 4 5 6 7 8 9 10 15 16 17 18 19 20

chain bonds :

7-11 11-12 11-25 12-13 12-24 13-14 13-23 14-15

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 15-16 15-20 16-17 17-18

18-19 19-20

exact/norm bonds :

7-11 11-12 12-13 12-24 15-16 15-20 16-17 17-18 18-19 19-20

exact bonds :

11-25 13-14 13-23 14-15

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom

20:Atom 23:CLASS 24:CLASS 25:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

L3 260 SEA SSS FUL L1

=> file ca

=> s 13

L4 12 L3

=> d ibib abs fhitstr 1-12

L4 ANSWER 1 OF 12 CA COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 143:241808 CA ANSWER 1 OF 12 CA COPYRIGHT 2005 ACS on STN COPYRIGHT 2005 ACS on STN
143:241808 CA
A-425619 [1-isoquinolin-5-yl-3-(4trifluoromethylbenzyl)ureaj, a novel transient
receptor potential type VI receptor antagonist,
relieves pathophysiological pain associated with
inflammation and tissue injury in rats
Honore, Prisca; Wismer, Carol T.; Mikusa, Joe; Zhu,
Chang Z.; Zhong, Chengmin; Gauvin, Donna M.; TITLE: AUTHOR (S): Gomtsyan, Arthur: El Kouhen, Rachid: Lee, Chih-Hung: Marsh, Kennan: Sullivan, James P.: Faltynek, Connie R.: Jarvis, Michael F. Neuroscience Research, Global Pharmaceutical Research and Development, Abbott Laboratories, Abbott Park, CORPORATE SOURCE: USA Journal of Pharmacology and Experimental Therapeutics (2005), 314(1), 410-421 CODEN: JPETAB: ISSN: 0022-3565 American Society for Pharmacology and Experimental Therapeutics Journal SOURCE: PUBLISHER: DOCUMENT TYPE: GENT TYPE: Journal JACE: English English The vanilloid receptor 1 (VRI, TRPVI), which is a member of the transient receptor potential (TRP) superfamily, is highly localized on peripheral and central processes of nociceptive afferent fibers. Activation of REFERENCE COUNT: THIS THERE ARE 44 CITED REFERENCES AVAILABLE FOR RECORD. ALL CITATIONS AVAILABLE IN THE RE contributes to the pronociceptive effects of capsaicin, protons, heat, various endogenous lipid agonists such as anandamide and N-arachidonoyl-dopamine. A-425619 is a novel potent and selective antagonist at both human and rat TRPVI receptors. In vivo, A-425619 dose dependently reduced capsaicin-induced mech. hyperalgesia (ED50 = 45 µmol/kg p.o.). A-425619 was also effective in models of inflammatory pain and postoperative pain. A-425619 potently reduced complete Freund's adjuvant-induced chronic inflammatory pain after oral administration adjuvant-Induced Chronic inflammatory pair after of a administration 0 = 40 µmol/kg p.o.) and was also effective after either i.t. administration or local injection into the inflamed paw. Furthermore, A-425619 maintained efficacy in the postoperative pain model after two daily dosing p.o. for 5 days. A-425619 also showed partial efficacy in models of neuropathic pain. A-425619 did not alter motor performance at the highest dose tested (300 µmol/kg p.o.). Taken together, the present data indicate that A-425619, a potent and selective antagonist of TRPVI receptors, effectively relieves acute and chronic inflammatory pain and postoperative pain. SS1809-67-8, A 425619
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(A-425619, a novel transient receptor potential type V1 receptor antagonist, relieves pathophysiol. pain associated with inflammation tissue injury in rats)
51039-67-8 Cd.
Urea, N-5-isoquinolinyl-N'-[[4-(trifluoromethyl)phenyl]methyl]- (9CI) L4 ANSWER 2 OF 12 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

TITLE:

143:241807 CA

A-425619 [1-isoquinolin-5-yl-3-(4-trifluoromethylbenzyl)urea], a novel and selective transient receptor potential type VI receptor antagonist, blocks channel activation by vanilloids, heat, and acid

El Kouhen, Rachid: Surowy, Carol S.: Bianchi, Bruce R.; Neelands, Torben R.: McDonald, Heath A.; Miforatos, Wender, Gomtsyan, Arthur, Lee, Chih-Hung; Honore, Prisca: Sullivan, James P.: Jarvis, Michael F.; Faltynek, Connie R.

CORPORATE SOURCE:

Neuroscience Research, Global Pharmaceutical Research and Development, Abbott Laboratories, Abbott Park, ANSWER 2 OF 12 CA COPYRIGHT 2005 ACS on STN IL, Journal of Pharmacology and Experimental Therapeutics (2005), 314(1), 400-409 CODEN: JPETAB: ISSN: 0022-3565
American Society for Pharmacology and Experimental Therapeutics SOURCE: PUBLISHER: Therapeutics

MENT TYPE: Journal

UAGE: English

The vanilloid receptor transient receptor potential type V1 (TRFV1)

integrates responses to multiple stimuli, such as capsaicin, acid, hat,
and endovanilloids and plays an important role in the transmission of

inflammatory pain. Here, we report the identification and in vitro

characterization of A-425619, a novel, potent, and selective TRFV1

antagonist. A-425619 was found to potently block capsaicin-evoked
increases in intracellular calcium concns. in HEK293 cells expressing

recombinant human TRFV1 receptors (IC50 = 5 nM). A-425619 showed similar

potency (IC50 = 3-4 nM) to block TRFV1 receptor activation by anandamide
and N-arachidonoy1-dopamine. Electrophysiol. expts. showed that A-42561

also potently blocked the activation of native TRFV1 channels in rat

dorsal root ganglion neurons (IC50 = 9 nM). When compared with other

known TRFV1 antagonists, A-425619 exhibited superior potency in blocking

both naive and phorbol ester-sensitized TRFV1 receptors. Like

capsazepine, A-425619 demonstrated competitive antagonism (pA2 = 2.5 nM)

of capsaicin-evoked calcium flux. Moreover, A-425619 was 25- to 50-fold

more potent than capsazepine in blocking TRFV1 activation. A-425619

showed no significant interaction with a wide range of receptors,

mes. DOCUMENT TYPE: THERE ARE 33 CITED REFERENCES AVAILABLE FOR REFERENCE COUNT: THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT enzymes, and ion channels, indicating a high degree of selectivity for TRPVI receptors. These data show that A-425619 is a structurally novel, nt, and selective TRPV1 antagonist. 581809-67-8, A 425619 RL: PAC (Pharmacological activity); BIOL (Biological study) (A-425619 as a potent and selective capsaicin receptor type VR1

(Continued)

(Continued)

INDEX NAME

antagonist)
531809-67-8 CA
Urea, N-5-isoquinolinyl-N'-[{4-(trifluoromethyl)phenyl]methyl]- (9CI)

4 ANSWER 3 OF 12 CA COPYRIGHT 2005 ACS on STN CCSSION NUMBER: 142:481963 CA TITLE: Preparation of used azabicyclic compounds that

inhibit

vanilloid receptor subtype 1 (VR1) receptor Lee, Chih-Hung; Bayburt, Erol K.; DiDomenico, INVENTOR (S): Stanley

Drizin, Irene; Gomtayan, Arthur R.; Koenig, John R.; Perner, Richard J.; Schmidt. Robert G.; Turner, Sean C.; Jinkerson, Tammie K.; Zheng, Guo Zhu USA U.S. Pat. Appl. Publ., 94 pp. CODEN: USXXCO Patent English 1

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. US 2005113576 PRIORITY APPLN. INFO.: US 2004-911019 US 2003-492528P 20040804 20050526

OTHER SOURCE(S):

MARPAT 142:481963

Azabicyclic compds., such as R-X5-C(:21)-Z2-L-R9 {R = substituted or unsubstituted azabicyclyl moiety, such as 5-isoquinolinyl, 4-indazolyl, 4-indolyl or 5-cinnolinyl; X5 = -N(R8a) - -C(R8a) - -C(R8b) -

= bond, -NH-, -O-; L = alkylene, alkenylene, alkynylene, cycloalkylene; R8a = H, alkyl; R8b = H, OH, halogen, alkyoxy, alkoxycarbonylalkyl, alkylcarbonyloxy, alkylsulfonyloxy; R9 = aryl, were prepared for use in pharmaceutical compns. as VRI antagonists for treating a disorder wherein the disorder is ameliorated by inhibiting a VRI receptor, such as pain, inflammatory thermal hyperalgesia, urinary incontinence and bladder overactivity. Thus, N-[2-(3-fluorophenyllethyl]-N'-isoquinolin-5-ylurea (I) was prepared starting from 5-isoquinolinamine, Cl3CCOCI and F-3-C6H4(CH2)2MH2 via urea formation in 65% yield refluxing F-3-C6H4(CH2)2MH2 and 2,2,2-trichloro-N-5-isoquinolinylacetamide in MeCN using DBU. The prepared azabicyclic compds. were tested in vivo to mine determine

rmine their antinociceptive effect in male mice. 581810-26-69 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic

L4 ANSWER 4 OF 12 CA COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 142:456241 CA

Design and synthesis of Rho kinase inhibitors (I).

(Erratum to document cited in CA141:046759)

Takami, Atsuya: Iwakubo, Masayuki; Okada, Yuji;
Kawata, Takehisa; Odai, Hideharu; Takahashi, Nobual Shindo, Kazutoshi; Kimura, Kaname; Tagami,

Yoshimichi:

Miyake, Mika; Fukushima, Kayoko: Inagaki, Masaki; Amano, Mutsuki; Kaibuchi, Kozo: Iijima, Hiroshi Pharmaceutical Research Laboratories, Kirin Brewery Co. Ltd, Takasaki-shi, Gunma, 370-1295, Japan Bioorganic 4 Medicinal Chemiatry (2004), 12(23), 6317 CODEN: BMECEP; ISSN: 0968-0896 Elsevier Ltd. Journal CORPORATE SOURCE:

SOURCE:

PUBLISHER

DOCUMENT TYPE:

MEAN: IFFE: JOURNAL
UAGE: English
A sentence is added in the Acknowledgements section: "This work was
supported by the grant from the Pharmaceuticals and Medical Devices

(PMDA).' 709046-05-92

RE: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (design and synthesis of Rho kinase inhibitors (Erratum)) 709046-05-9 CA

Urea, N-[(2,6-difluorophenyl)methyl]-N'-5-isoquinolinyl- (9CI) (CA INDEX NAME)

ANSWER 3 OF 12 CA COPYRIGHT 2005 ACS on STN (Continued)
preparation); THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); RACT (Reactant or reagent); USES (Uses)
(prepn. of fused azabicyclic compds. that inhibit vanilloid subtype 1
(VRI) receptor)
581810-26-6 CA Urea, N-((4-cyanophenyl)methyl)-N'-5-isoquinolinyl- (9CI) (CA INDEX

L4 ANSWER 5 OF 12 CA
CCESSION NUMBER:

142:240400 CA
Novel transient receptor potential vanilloid 1
receptor antagonists for the treatment of pain:
Structure-activity relationships for ureas with
quinoline, isoquinoline, quinazoline, phthalazine,
quinoxaline, and cinnoline moieties
Gomtsyan, Arthur: Bayburt, Frol K.; Schmidt, Robert
G.; Zheng, Guo Zhu; Perner, Richard J.; Didomenico,
Stanley; Koenig, John R.; Turner, Sean; Jinkerson,
Tammie; Drizin, Irene; Hannick, Steven M.; Macri,
Bryan S.; McDonald, Heath A.; Honore, Prisca; Wismer,
Carol T.; Marsh, Kennan C.; Wetter, Jill; Stewart,
Kent D.; Ole, Tetsuro; Jarvis, Michael F.; Surowy,
Carol S.; Faltynek, Connie R.; Lee, Chih-Hung
Global Pharmaceutical Research and Development,

CORPORATE SOURCE: Abbott

Laboratories, Abbott Park, IL, 60064, USA Journal of Medicinal Chemistry (2005), 48(3), 744-752 CODEN: JMCMAR; ISSN: 0022-2623 American Chemical Society Journal SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE: English

AB Transient receptor potential vanilloid 1 (TRPV1) receptor antagonists with

various bicyclic heteroarom, pharmacophores were synthesized, and their

vitro activity in blocking capsaicin activation of TRPV1 was assessed.

the basis of the contribution of these pharmacophores to the in vitro potency, they were ranked in the order of 5-isoquinoline > 8-quinoline = 8-quinazoline > 8-isoquinoline ≥ cinnoline ≈ phthalazine ≈ quinoxailne ≈ 5-quinoline. The 5-isoquinoline-containing compound I (hTRPVI IC50 = 4 nM) exhibited 464 oral bioavailability and in vivo activity in animal models of visceral and inflammatory pain.

Pharmacokinetic and pharmacol, properties of I were substantial improvements over the profile of the high-throughput screening hit PVI

IC50 = 22 nM), which was not efficacious in animal pain models and was

orally bicavailable.

IT 581809-67-8P
RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation, pharmacokinetics, transient receptor potential vanilloid 1

L4 ANSWER 5 OF 12 CA COPYRIGHT 2005 ACS on STN (Continued) receptor affinity, and structure-activity relationship of isoquinolinyl crifluoromethylbenzyl urea)
RN 501809-67-8 CA CN Urea, N-5-isoquinolinyl-N'-[(4-(trifluoromethyl)phenyl]methyl]- (9CI)

INDEX NAME)

THERE ARE 20 CITED REFERENCES AVAILABLE FOR

RECORD. ALL CITATIONS AVAILABLE IN THE RE

ANSWER 6 OF 12 CA COPYRIGHT 2005 ACS on STN (Continued)

II

Compds. of formula I [X1-X5 = (substituted) N, (substituted) CH; 21 = 0, NH, S; 22 = bond, NH, O; L = alkylene, cycloalkylene, piperazinediyl, etc.; R5-R9 = H, alkyl, alkenyl, alkoxy, carboxy, cycloalkyl, formyl, mercapto, etc.; R10 = H, aryl, cycloalkyl, heterocyclyl) are prepared as vanilloid receptor subtype 1 (VR1) antagonists that are useful in

vanilloid receptor subtype 1 (VR1) antagenists that are useful in treating pain, inflammatory thermal hyperalgesia, urinary incontinence and bladder overactivity. Thus, II was prepared from 5-aminoisoquinoline and 2-(3-fluorophenyl)ethylamine. The prepared compds. were found to be antagonists of VR1 with IC50 of 0.1 nM to 1000 nM.

IT S1809-63-69

SELUTION OF THE STATE OF T

(Uses) (preparation); USES (preparation); USES (preparation of fused azabicyclic compds. as vanilloid receptor 1 inhibitors) 581809-65-6 CA UTea, N-[2-(3-fluorophenyl)ethyl]-N'-5-isoquinolinyl- (9CI) (CA INDEX NAME)

L4 ANSWER 6 OF 12 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 141:174087 CA 141:174087 CA Preparation of fused azabicyclic compounds that inhibit vanilloid receptor subtype 1 (VR1)
INVENTOR(5): Lee, Chih-Hung; Bayburt, Erol K.; Didomenico,

Drizin, Irene: Gomtsyan, Arthur R.: Koenig, John R.;
Perner, Richard J.: Schmidt, Robert G.: Turner, Sean
C.: White, Tammie K.: Zheng, Guo Zhu
Abbott Laboratories, USA
U.S. Pat. Appl. Publ., 93 pp., Cont.-in-part of U.S.
Ser. No. 364,210.
CODEN: USXXCO
Patent
English
3

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE PATENT NO.

US 2004157849
US 6933311
US 2003158198
W2 2005016890
W: AE, AG, AL,
CN, CO, CR,
GE, GH, GM,
LK, LR, LS,
NO, NZ, OM,
TJ, TM, TN,
RW: BW, GH, GM,
AZ, BY, KG,
EE, ES, FI,
SI, SK, TR,
PRIORITY APPLN. INFO.: A1 20040812
B2 20050823
A1 20030821
A1 20030821
A1 A1 20030824
AM, AT, AU, AZ,
CU, CZ, DE, DK,
HR, HU, ID, IL,
T, LU, LV, MA,
PG, PH, PL, PT,
TR, TT, TZ, UA,
KE, LS, MW, MZ,
KZ, MD, RU, TJ,
FR, GB, GR, HU,
BF, BJ, CF, CG, us 2003-634678 20030805 US 2003-364210
WO 2004-US25109
BA, BB, BG, BR, BW, DM, DZ, EC, EE, EG, IN, 15, JP, KE, KG, MD, MG, MK, MN, MK, RO, RU, SC, SD, SE, UG, US, UZ, VC, VN, NA, SD, SI, SZ, TZ, TM, AT, BE, BG, CH, IE, IT, LU, MC, IL, CI, CM, GQ, GN, GQ, 20030211 US 2003-364210 A2 20030211

US 2002-358220P P 20020220

US 2003-634678 A 20030805

OTHER SOURCE(S): MARPAT 141:174087

L4 ANSWER 7 OF 12 CA COPYRIGHT 2005 ACS ON STN ACCESSION NUMBER: 141:157010 CA TITLE: N-Isoquinolin-5-yl-N'-aral

AUTHOR (S):

COPPRIGHT 2005 ACS on STN
141:157010 CA
N-Isoquinolin-5-y1-N'-aralkyl-urea and -amide
antagonists of human vanilloid receptor 1
Jetter, Michele C.; Youngman, Mark A.; McNally, James
J.; Zhang, Sui-Po: Dubin, Adrienne E.; Nasser, Nadia;
Dax, Scott L.
Johnson & Johnson Pharmaceutical Research and
Development, Spring House, PA, 19477, USA
Bioorganic & Medicinal Chemistry Letters (2004),
14(12), 3053-3056
CODEN: BMCLE8; ISSN: 0960-894X
Elsevier Science B.V.
Journal

CORPORATE SOURCE:

SOURCE:

PUBLISHER:

DOCUMENT TYPE: LANGUAGE:

OTHER SOURCE(S):

UNGE: Journal
R SOURCE(S): CASREACT 141:157010
Starting from a low micromolar agonist lead identified by high-throughput screening, series of N-isoquinolin-5-yl-N'-aralkyl ureas and analogous amides were developed as potent antagonists of human vanillold receptor 1 (VRI). The synthesis and structure-activity relationships (SAR) of the series are described.
S81809-67-8P
RL: PAC (Decree: Carrier of the series are described.

581809-67-89
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of n-isoquinolin-5-yl-N'-aralkyl-urea and -amide

(preparation or n-isoquinoiin-3-yi-n -usunyi usun miniluding their structure-activity relationships as antagonists of human vanilloid receptor 1)

RN 581809-67-8 CA
CN Urea, N-5-isoquinolinyl-N'-[[4-(trifluoromethyl)phenyl]methyl]- (9CI)

INDEX NAME)

REFERENCE COUNT: THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 8 OF 12 CA
ACCESSION NUMBER:
141:46759 CA
Design and synthesis of Rho kinase inhibitors (I)
AUTHOR(S):
AUTHOR(S):
Takmmi, Atsuya: Iwakubo, Masayuki; Okada, Yuji;
Kawata, Takehiasi Odai, Hideharu: Takahashi, Nobus
Shindo, Kazutoshi; Kimura, Kaname: Tagami, Nobuaki;

NAMELA, TAKENIAS: Oddi, Hideharu: Takahashi, Nobuaki;
Shindo, Karutoshi; Kimura, Kaname: Tagami,
Wiyake, Mika: Fukushima, Kayoko: Inagaki, Masaki;
Amano, Mutsuki: Kaibuchi, Kozo: Iijima, Hiroshi
CORPORATE SOURCE: Pharmaccutical Research Laboratories, Kirin Brewery
Co. Ltd., Gumma, Takasaki-shi, 370-1295, Japan
SOURCE: Bioorganic & Medicinal Chemistry (2004), 12(9),
2115-2137
CODEN: EMECEP: ISSN: 0968-0896
EDISHER: Elsevier Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:46759
AB Several structurally unrelated scaffolds of the Rho kinase inhibitor were
designed using pharmacophore information obtained from the results of a
high-throughput screening and structural information from a homol. model
of Rho kinase model helped to comprehensively understand and to predict
the structure-activity relationship of the inhibitors. This
understanding
was useful for developing new Rho kinase inhibitors of higher potency and
selectivity. We identified several potent platforms for developing the
Rho kinase inhibitors, namely, pyridine, lH-indazole, isoquinoline, and
phthalimide.
IT 709046-03-9P
RL: PAC (Pharmacological activity); SFN (Synthetic preparation); BIOL
(Biological study); PREP (Preparation)
(design and synthesis of Rho kinase inhibitors)
RN 709046-05-9 CA
CN Ures, N-1(2,6-difluorophenyl)methyl)-N'-5-isoquinolinyl- (9CI) (CA INDEX
NAME)

REFERENCE COUNT: THIS

THERE ARE 32 CITED REFERENCES AVAILABLE FOR

L4 ANSWER 9 OF 12 CA COPYRIGHT 2005 ACS on STN 140:111290 CA TITLE: 140:111290 CA Preparation of naphthalenylureas, quinolinylureas, and

isoquinolinylureas as modulators of vanilloid VR1 receptor ligands.
Codd, Ellen; Dax, Scott L.; Jetter, Michele;
Hedonnell, Mark; Menally, James J.; Youngman, Mark
Janssen Pharmaceutica N.V., Belg.
PCT Int. Appl., 205 pp.
CODEN: PIXXD2
Patent
English
1

INVENTOR (S):

PATENT ASSIGNEE (S): SOURCE:

DOCUMENT TYPE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	TENT :					_	DATE		i		ICAT				D	ATE	
WO	0 2004007459				A2 20040122			WO 2003-US21518						20030710			
WO	2004007459			A3 20040318													
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
		co.	CR.	CU.	CZ.	DE.	DK.	DM.	DZ.	EC.	EE.	ES.	FI,	GB,	GD,	GE,	GH,
		GM.	HR.	HU.	ID.	IL.	IN.	IS.	JP.	KE.	KG.	KP.	KR,	KZ.	LC.	LK.	LR.
		LS.	LT.	LU.	LV.	MA.	MD.	MG.	MK.	MN.	MW.	MX.	MZ.	NI.	NO.	NZ,	OM.
		PG.	PH.	PL.	PT.	RO.	RU.	SC.	SD.	SE.	SG,	SK.	SL.	SY.	TJ.	TM.	TN.
		TR.	TT.	TZ.	UA.	UG.	US.	UZ.	VC.	VN.	YU,	ZA.	ZM.	ZW			
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PRIORITY					~1		2001	0012			002-					0020	
									1	US 2	002-	3959	51P		P 2	0020	715

OTHER SOURCE(S):

MARPAT 140:111290

Title compds. [I: R1, R2 = H, OH, halo, (substituted) alkyl, alkoxy, alkylthio, cycloalkyl, cycloalkoxy, etc.: R3 = H, OH, F, C1, NO2, amino;

= (substituted) alkylene: R4, R5 = H, alkyl: R6 = (substituted) Ph, naphthyl, heteroaryl, cycloalkyl, heterocyclyl: X = CH, N, NO: Y = C, N:

= 0, S}, were prepared as potent antagonists or agonists of VR1 which are useful for the treatment and prevention of inflammatory and other pain.

Page 6

L4 ANSWER 8 OF 12 CA COPYRIGHT 2005 ACS on STN (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 9 OF 12 CA COPYRIGHT 2005 ACS on STN (Continued)
Thus, (1-chloroisoquinolin-5-yl)catbamic acid Ph ester and
4-triflucoromethylbenzylamine were stirred overnight in DNSO to give 61%
1-(1-chloroisoquinolin-5-yl)-3-(4-trifluoromethylbenzyl)urea. I bound to
VR1 receptors with Ki = 0.10-100,000 nM.
581809-67-8p

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(Uses)
{preparation of naphthalenylureas, quinolinylureas, and
isoquinolinylureas
as modulators of vanilloid VR1 receptor ligands)
RN 581809-67-8 CA
CN Urea, N-5-isoquinolinyl-N'-{{4-(trifluoromethyl)phenyl]methyl}- (9CI)

INDEX NAME)

A ANSWER 10 OF 12 CA COPYRIGHT 2005 ACS on STN

CCESSION NUMBER: 139:292162 CA Heteroaromatic ureas as vanilloid receptor (VRI) modulators, in particular antagonists, for treating pain and/or inflammation

NVENTOR(S): Brown, Rebecca Elizabeth: Doughty, Victoria

INVENTOR(S): Alexandra;

Hollingworth, Gregory John; Jones, A. Brian; Lindon, Matthew John; Moyes, Christopher Richard; Rogers, Lauren Merck Sharp & Dohme Limited, UK PCT Int. Appl., 110 pp. CODEN: PIXXD2 Patent English 1

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

		FENT																
		2003																
									AZ,									
									DM,									
									IS,									
									MK,									
									SE,					TM,	TN,	TR,	TT,	TZ,
			UA,	UG,	υs,	UΖ,	۷C,	VN,	Yυ,	ZA,	ZM,	ZW						
		RW:	GH,	GM,	ΚĒ,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	υG,	ZM,	ZW,	AM,	ΆZ,	BY,
									AT,									
									IT.									
									GA.									
	-	2479																
	EP	1490																
		R:							FR,									
									MK,									
	US	2005	1073	88		A1		2005	0519		US 2	003-	5053	58		2	0030	321
	JP	2005	5267	98		T2		2005	0908		JP 2	003-	5783	33		2	0030	321
RIC	RIT	2005 Y APP	LN.	INFO	.:						GB 2	002-	6876			A 2	0020	322
											WO 2	003-	GB13	02		W 2	0030	321

OTHER SOURCE(S):

MARPAT 139:292162

$$(R^{1})_{173} \xrightarrow{X}_{N-(CR^{5}R^{6})}_{R^{3}} \xrightarrow{N-(CR^{5}R^{6})}_{R^{4}}$$

ANSWER 10 OF 12 CA COPYRIGHT 2005 ACS on STN (Continued)

REFERENCE COUNT:

20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 12 CA COPYRIGHT 2005 ACS on STN (Continued)

Title compds. I (wherein A, B, D, E are each C or N with the proviso that one or more are N: R1, R2 = independently H, halo, alk(enyl/ynyl), haloalkyl, hydroxyalkyl, cycloalkylalkyl, NH2 and derivs., CO2H and derivs., (un)substituted alkyl, alkoxy: R3, R4 = independently

CO2H and derivs., (un) substituted alkyl, alkoxy; R3, R4 = independently H, alk(en/yn)yl; R5, R6 = at each occurrence, independently H, alk(enyl/ynyl), alkoxy, acyloxy, carboxy and derivs., CONH2 and derivs., sulfonyl(alkyl/amino), aryl, hetero(aryl/cyclyl), (un) substituted alkyl; or CR5R6 = 3-6 carbocyclic membered ring; R7, R8 = at each occurrence, independently H, alk(en/ynyl), cycloalkyl, fluoroalkyl; or NRTR8 = (un) substituted 4-7 heteroaliph. membered ring; X = 0, S or =NCN; Y = aryl, heteroaryl, carbocyclyl, fused carbocyclyl group; n = 0, 1, 2, 3; and their pharmaceutically acceptable salts, N-oxides, and prodrugs) were prepared as vanilloid receptor (VR1) modulators, in particular antagonists, for treating conditions or diseases in which pain and/or inflammation predominates. For example, 1-isoquinolin-5-yl-3-(3-phenylpropyl)urea was prepared by reacting isoquinoline-5-carboxylic acid with diphenylphosphoryl aride in toluene at reflux for 1 h through a Curtius rearrangement, followed by addition of 3-phenylpropylamine and reflux for 18 h. I bound to the VR1 receptor with an IC50 < 1 µM, and in the majority of cases, < 200 nM. I are predominantly VR1 antagonists with a few of them VR1 partial antagonists and VR1 partial agonists. Thus, I and their pharmaceutical compns. are useful for treating pain and/or inflammation.

IT 581809-57-89, 1-Isoquinolin-5-yl-3-(4-(trifluoromethyl)benzyl]urea RL: PAC (Pharmacological activity); RCT (Reactant); SPR (Synthetic preparation); RACT (Reactant or reagent); USES (Usea) (VR1 receptor ligand; preparation of heteroarom, ureas as vanilloid receptor modulators for treating pain and inflammation)

RN 581809-67-8 CA

CN Urea, N-5-isoquinolinyl-N'-[[4-(trifluoromethyl)phenyl]methyl]- (9CI)

ANSWER 11 OF 12 CA COPYRIGHT 2005 ACS on STN

INDEX NAME)

ACCESSION NUMBER:	139:19/383 CA											
TITLE:	Preparation of fused azabicyclic compounds that											
	inhibit vanilloid receptor subtype 1 (VR1)											
INVENTOR (S):	Lee, Chih-Hung; Bayburt, Erol K.; Didomenico,											
Stanley;	bee, onth hang, bajaste, broz hi, brasmonros,											
beaming,	Drizin, Irene; Gomtsyan, Arthur R.; Koenig, John R.;											
	Perner, Richard J.; Schmidt, Robert G.; Turner, Sean											
	C.; White, Tammie K.; Zheng, Guo Zhu											
PATENT ASSIGNÉE(S):	USA											
SOURCE:	U.S. Pat. Appl. Publ., 79 pp.											
	CODEN: USXXCO											
DOCUMENT TYPE:	Patent											
LANGUAGE:	English											
FAMILY ACC. NUM. COUNT:												
PATENT INFORMATION:												
PATENT NO.	KIND DATE APPLICATION NO. DATE											
TATEM NO.	ATTE CATTON NO. DATE											
116 2002150100	A1 20030821 US 2003-364210 20030211											
	AA 20030828 CA 2003-2476936 20030211											
WO 2003070247	A1 20030828 WO 2003-US4187 20030211											
W: CA, JP, MX												
	CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,											
IT, LU, MC,	NL, PT, SE, SI, SK, TR											
EP 1478363	A1 20041124 EP 2003-716014 20030211											
R: AT, BE, CH,	DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,											
	LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK											
US 2004157849	A1 20040812 US 2003-634678 20030805											
US 6933311	R2 20050823											
116 3004300004	A1 20041021 US 2004-842311 20040510											
PRIORITY APPLN. INFO.:												
PRIORITY APPLN. INFO.:	US 2002-358220P P 20020220											

US 2002-79324

US 2003-364210

WO 2003-US4187

A 20020220

A 20030211

W 20030211

OTHER SOURCE(S): MARPAT 139:197383

Compds. of formula I [X1-X5 = (substituted) N, (substituted) CH: 21 = 0, NH, 5: 22 = bond, NH, O: L = alkylene, cycloalkylene, piperazinediyl, etc.: R5-R9 = H, alkyl, alkenyl, alkoxy, carboxy, cycloalkyl, formyl,

ANSWER 11 OF 12 CA COPYRIGHT 2005 ACS on STN (Continued)
mercapto, etc.: R10 = H, aryl, cycloalkyl, heterocyclyl) are prepd. as
vanilloid receptor subtype 1 (VR1) antagonists that are useful in

vanilloid receptor subtype 1 (VRI) antayonias when a second receptor iting pain, inflammatory thermal hyperalgesia, urinary incontinence and bladder overactivity. Thus, II was prepd. from 5-aminoisoquinoline and 2-(3-fluorophenyllethylamine. The prepd. compds. were found to be antagonists of VRI with IC50 of.1 nM to 1000 nM. S81809-65-69 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of fused azabicyclic compds. as vanilloid receptor 1

(Uses)
(preparation of fused azabicyclic compds. as vanilloid receptor 1 inhibitors)
581809-65-6 CA
Urea, N-[2-(3-fluorophenyl)ethyl]-N'-5-isoquinolinyl- (9CI) (CA INDEX NAME)

ANSWER 12 OF 12 CA COPYRIGHT 2005 ACS on STN (Continued) Title compds. [I; X1 = N, CR1; X2 = N, CR2; X3 = N, NR3, CR3; X4 = null, N, CR4; X5 = N, CR2; Z1 = O, NN, S; Z2 = NN, O; L = piperazinylene, alkenylene, alkylene, alkynylene, cycloalkylene, (CH2)mO(CH2)n, NHO,

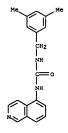
alkenylene, alkylene, alkynylene, cycloalkylene, (CH2)mO(CH2)n, NHO, ;
m, n = 1-6; Rl, R3, R5, R6, R7 = H, alkenyl, alkoxy, alkoxyalkoxy,
m, n = 1-6; Rl, R3, R5, R6, R7 = H, alkenyl, alkoxy, alkoxyalkoxy,
alkoxyalkyl, alkoxycarbonyl, alkoxycarbonylalkyl, A, ACO, ACOA, ACO2, AS,
alkynyl, CO2H, ACO2H, cyano, cyanoalkyl, cycloalkylalkyl,
ethylenedioxy, CHO, ACHO, heloalkoxy, haloalkyl, haloalkylthio, halo, OH,
HOA, methylenedioxy, SH, ASH, NO2, (CF3)2(HO)C, NRASO2RB, SO2ORA, SO2RB,
NOZAZB, (NZAZB)A, (NZAZB)COA, (NZAZB)SO2, ZA, ZB = H, A, ACO,
CHO, aryl, aralkyl; R2, R4 = H, alkenyl, AO, alkoxyalkoxy, AOA, ACO2,
AO2CA, A, ACOA, ACOA, ACO2, AS, alkynyl, CO2H, carboxyalkyl, cyano,
cyanoalkyl, cycloalkyl, cycloalkylalkyl, ethylenedioxy, CHO, AGHO,
haloalkoxy, haloalkyl, haloalkylthio, halo, OH, HOA, methylenedioxy, SH,
HSA, NO2, (CF3)2(HOIC, NRAS(O12RB, SO2ORA, SO2RB, NZAZB, (NZAZB)alkyl,
(NZAZB)ACO, (NZAZB)CO, (NZAZB)COA, (NZAZB)SO2, (NZAZB)C:NNH),
(NZAZB)C:(NNC)NHN, (NZAZB)CCINNH)NH; RA = H, A: RB = A, aryl, aralkyl; R8 =
null, H, A; R9 = H, aryl; heterocycle; A = alkyl; dotted line = optional
double bond), were prepared for treating pain, inflammatory thermal
hyperalgesia, urinary incontinence and bladder overactivity (no data).
Thus, 2,2,2-trichloro-N-isoquinolin-5-ylacetamide, (preparation given)
and

Thus, 2,2,2-trichloro-N-isoquinolin-5-ylacetamiue, tyrepetution and 2-(3-fluorophenyl)ethylamine in acetonitrile were refluxed for 10 h to give 65% N-[2-(3-fluorophenyl)ethyl]-N'-isoquinolin-5-ylurea.

SB1810-95-5P
RL: PRC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); TRU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (claimed compound; preparation of isoquinolines, indoles, and related ds.

as antagonists of vanilloid receptor subtype 1)
581810-09-5 CA

Ddis1U-09-5 CA Urea, N-[(3,5-dimethylphenyl)methyl]-N'-5-isoquinolinyl- (9CI) (CA INDEX NAME)



L4 ANSWER 12 OF 12 CA COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 139:197382 CA
TITLE: Preparation of isoquinolines, indoles, and related
compounds as antagonists of vanilloid receptor

INVENTOR(S): Stanley;

1 (VR1). Lee, Chih-Hung; Bayburt, Erol K.; Didomenico,

Drizin, Irene; Gomtsyan, Arthur R.; Koenig, John R.; Perner, Richard J.; Schmidt, Robert G.; Turner, Sean C.; White, Tammle K.; Zheng, Guo Zhu USA U.S. Pat. Appl. Publ., 38 pp. CODEN: USXXCO Patent English 3

PATENT ASSIGNEE (S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

DATE -----20030821 20030828 20030828 PATENT NO. KIND APPLICATION NO. US 2003158188 Al 20030821 US 2002-79324 20020220
CA 2476936 AA 20030828 WO 2003-2476936 20030211
W: CA, JP, MX
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IT, LU, MC, NL, PT, SE, SI, SK, TR
EP 1478363 Al 20041124 EP 2003-116014 20030211
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
PRIORITY APPLN. INFO:: US 2002-79324 A 20020220

US 2003-364210 A 20030211

WO 2003-US4187 W 20030211

OTHER SOURCE(S): MARPAT 139:197382

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10/616,579
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FILE 'REGISTRY' ENTERED AT 10:49:33 ON 27 OCT 2005

L1 STRUCTURE UPLOADED

L2 16 S L1 SAM L3 260 S L1 FULL

FILE 'CA' ENTERED AT 10:50:04 ON 27 OCT 2005

L4 12 S L3

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---Logging off of STN---

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Executing the logoff script...

=> LOG Y

STN INTERNATIONAL LOGOFF AT 10:51:26 ON 27 OCT 2005